

TECACOMP® PPA TRM X black 3990

Polyphthalamide

Ensinger GmbH

Message:

Main features
good slide and wear properties
Target Industries
automotive industry
mechanical engineering

General Information			
Features	Good wear resistance		
Uses	Application in Automobile Field		
Appearance	Dark gray		
Forms	Particles		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.42	g/cm³	
Apparent Density	0.71	g/cm³	ISO 60
Melt Mass-Flow Rate (MFR) (340°C/2.16 kg)	50	g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (340°C/2.16 kg)	75.0	cm³/10min	ISO 1133
Molding Shrinkage			ISO 294-4
Transverse flow	1.2	%	ISO 294-4
Flow	0.98	%	ISO 294-4
Water Absorption (Equilibrium, 23°C, 50% RH)	0.30	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	7500	MPa	ISO 527-2/50
Tensile Stress	120	MPa	ISO 527-2/50
Tensile Strain (Break)	2.0	%	ISO 527-2/50
Flexural Modulus	6700	MPa	ISO 178
Flexural Stress	170	MPa	ISO 178
Compressive Modulus	6000	MPa	ISO 604
Compressive Stress	175	MPa	ISO 604
Flexural Strain	3.5	%	ISO 178
Service Temperature			
long term	150	°C	
short term	250	°C	
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength	40	kJ/m²	ISO 179/1eU

Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	270	°C	ISO 75-2/B
1.8 MPa, not annealed	140	°C	ISO 75-2/A
Glass Transition Temperature	100 - 140	°C	DIN 53765
Melting Temperature	285 - 315	°C	DIN 53765
Linear thermal expansion coefficient			ISO 11359-2
Flow: 23 to 80°C	3.3E-5	cm/cm/°C	ISO 11359-2
Lateral: 23 to 80°C	6.7E-5	cm/cm/°C	ISO 11359-2
Thermal Conductivity			DIN EN 821
-- 1	0.40	W/m/K	DIN EN 821
-- 2	0.50	W/m/K	DIN EN 821
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	3.4E+13	ohms	DIN EN 61340
Volume Resistivity	1.1E+16	ohms·cm	DIN EN 61340
Flammability	Nominal Value	Unit	Test Method
Flammability Classification	HB		IEC 60695-11-10, -20
Injection	Nominal Value	Unit	
Drying Temperature	80 - 120	°C	
Drying Time	4.0 - 6.0	hr	
Processing (Melt) Temp	315 - 340	°C	
Mold Temperature	100 - 120	°C	
NOTE			
1.	Through-plane		
2.	In-plane		

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